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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/082,844

02/25/2002

Stephen E. Terry

I-2-0160.2US

8107

24374

7590

11/02/2006

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PHILADELPHIA, PA 19103

EXAMINER

SHAND, ROBERTA A

ART UNIT

PAPER NUMBER

2616

DATE MAILED: 11/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	Application No. 10/082,844	Applicant(s) TERRY, STEPHEN E.	
	Examiner Roberta A. Shand	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 August 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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Finality has been withdrawn, and the following rejection applies.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oksala (U.S. 6477151 B1) in view of Goldman (U.S. 6016322).

3. Regarding claim 1, Oksala teaches a method (fig. 4 and col. 4, lines 1-29) of using a mobile terminal for synchronizing uplink signals in a communication system which supports base station (BSS) / mobile terminal (MS) wireless bi-directional communications via the utilization of a time frame having sequentially identified system time frames (timing burst), comprising: receiving data from a base station (BSS) within system time frames (timing frames) including a TA (timing advance index) signal which includes TA (timing advance index) data (col. 4, lines 10-17) and a connection frame number (idle frame slot number); and adjusting the timing of uplink transmissions of the mobile terminal in response to the TA (timing advance index) data in the received TA signal.

4. While Oksala teaches (col. 9, lines 26-30) using the timing advance value at the mobile station to advance transmission slots, Oksala does not explicitly teach specifying a specific frame

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for effectuating a timing adjustment and adjustment commencing in the time frame specified in the CFN of the received TA signal.

5. Goldman teaches (fig. 6) specifying a specific frame (612) for effectuating a timing adjustment and adjustment commencing in the time frame specified in the CFN (time slot assignment) of the received TA signal (616). It would have been obvious to one of ordinary skill in the art to adapt this to Oksala's system to ensure synchronization within the system (abstract).

6. Regarding claim 2, Oksala teaches (fig. 4 and col. 4, lines 1-29) a mobile terminal (MS) which supports base station (BSS) / mobile terminal (MS) wireless bi-directional communications via the utilization of a time frame (timing burst) having sequentially identified system time frames, where base stations transmit selectively formatted communication data to mobile terminals within system time frames comprising: a receiver, a transmitter and an associated processor; to receive data from a base station (BSS) within system time frames (timing burst) including a TA (timing advance index) signal (col. 4, lines 10-17); transmitter to transmit selectively formatted communication data to a base station (BSS) within system time frames synchronized by the processor (col. 4, lines 18-22); and processor to adjust the timing of the transmissions of the processor in response to the TA (timing advance index) data in a received signal (col. 4, lines 23-29).

7. While Oksala teaches (col. 9, lines 26-30) using the timing advance value at the mobile station to advance transmission slots, Oksala does not explicitly teach specifying a specific frame for effectuating a timing adjustment and adjustment commencing in the time frame specified in the CFN of the received TA signal.

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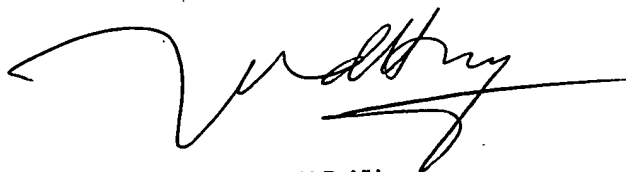
8. Goldman teaches (fig. 6) specifying a specific frame (612) for effectuating a timing adjustment and adjustment commencing in the time frame specified in the CFN (time slot assignment) of the received TA signal (616). It would have been obvious to one of ordinary skill in the art to adapt this to Oksala's system to ensure synchronization within the system (abstract).

### *Conclusion*

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



HUY D. VU  
SUPERVISORY PATENT EXAMINER  
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Roberta A Shand  
Examiner  
Art Unit 2616